



ABSTRACT OF THE DISCLOSURE

The present invention relates to multifunctional polymerization initiators comprising a radically polymerizable atom or group and at least one non-ATRP polymerization initiation group. The non-ATRP polymerization process may be any one of a cationic, anionic, free radical, controlled free radical, metathesis, ring opening and coordination polymerization process. An example is a halogenated peroxide derivative for conventional free radical polymerization and ATRP.

Embodiments of the present invention comprise macroinitiators which initiate polymerization processes to produce block copolymers. The block copolymers may comprise monomer units polymerizable by different polymerization processes, including but not limited to, cationic, anionic, free radical, controlled free radical, metathesis, ring opening and coordination polymerization processes.

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